What is claimed is:



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- A\pressure-sensitive adhesive composition based on (co)polymers of acrylic acid and/or methacrylic acid and/or derivatives thereof which has an at least two-phase domain structure and also an outgassing level of less than 10 µg/g, based on the weight of the composition, when measured by the tesa method.
- The pressure-sensitive adhesive composition as claimed in claim 1, wherein at least some of the (co)polymers are block copolymers of the general type P(A)-P(B)-P(A), where
 - P(A) represents a homopolymer or copolymer block of the monomers A, possessing a glass transition temperature of from -80°C to 0°C,
 - P(B) represents a homopolymer or copolymer block of the monomers B, possessing a glass transition temperature of from 20°C to 175°C,
 - and the homopolymer or copolymer blocks P(A) and the homopolymer or copolymer blocks P(B) are insoluble in one another.
- The pressure-sensitive adhesive composition as claimed in claim 1, wherein at least some of the (co)polymers are block copolymers of the general type P(B)-P(A)-P(B), where
 - P(A) represents a homopolymer or copolymer block of the monomers A, possessing a glass transition temperature of from -80°C to 0°C,
 - P(B) represents a homopolymer or copolymer block of the monomers B, possessing a glass transition temperature of from 20°C to 175°C,
 - and the homopolymer or copolymer blocks P(A) and the homopolymer or copolymer blocks P(B) are insoluble in one another.



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- 4. The pressure-sensitive adhesive composition as claimed in either of claims 2 and 3, wherein the monomers A are selected from the group of the acrylates CH₂=CHCOOR and/or methacrylates CH₂=C(CH₃)COOR in which the groups R are alkyl radicals having from 4 to 14 carbon atoms, preferably those having from 4 to 9 carbon atoms.
- The pressure-sensitive adhesive composition as claimed in any of claims 2 to 4, wherein at least some of the monomers A have a functional group R' which is capable of coordinative crosslinking.

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- 6. The pressure-sensitive adhesive composition as claimed in any of claims 2 to 4, wherein at least some of the monomers A have a functional group R" which possesses a cohesion-enhancing effect for the homopolymer or copolymer P(A) and/or for the overall block copolymer.
- 7. A process for preparing a pressure-sensitive adhesive composition as claimed in at least one of the preceding claims, using a polyacrylate solution obtainable by free-radical polymerization, which comprises a concentration process in which
 - following polymerization, an entrainer is added to the polyacrylate solution,
 - the polyacrylate solution with the added entrainer is passed into an extruder in which the polyacrylate solution is subjected to a carrier distillation,
 - as a result of the concentration a polyacrylate composition of a kind is produced which is processed further from the melt
 - and the concentrated polyacrylate composition, where appropriate, is applied to a backing material.
- 8. The process as claimed in claim 7, wherein, following the concentration, a postpurification is carried out in at least one further step by adding the same or another entrainer to the concentrated polyacrylate composition and conducting a further carrier distillation in the extruder, preferably selecting in each case higher temperatures and lower vacuums than in the preceding distillation step.
- The process as claimed in at least one of claims 7 and 8, wherein at least the
 extruder in the concentration step is a corotating or counterrotating twin screw
 extruder.
 - 10. The process as claimed in a least one of claims 7 to 9, wherein steam is used as entrainer.
- 11. An adhesive tape, particularly for use in the electronics industry, comprising applied to one or both sides of a backing naterial at least one film of a pressure-sensitive adhesive composition as claimed in at least one of claims 2 to 6.

12. The adhesive tape as claimed in claim 7, wherein said backing material has a very low outgassing tendency, preferably of less than 5 μg/g.

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